

Quick Call Cellular Partners

Report on

Implementation of Wireless E911 Phase II Automatic Location Identification

Background/Contact Information

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Quick Call Cellular Partners

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E911 Phase II Location Technology Information

After reviewing the available technology, Quick Call Cellular Partners ("Quick Call") has concluded that a network-based technology is the only available option that is viable as a Phase II solution as of the date of this Report. To the best of Quick Call's knowledge, most of the major handset manufacturers have informed the FCC that they are unable to timely produce location capable handsets that meet the FCC's requirements. As a result, Quick Call expects that it will use a combination of two technologies: Time Difference of Arrival ("TDOA") and Angle of Arrival ("AOA") technology position determining equipment.

TDOA involves the use of multiple receivers that contain accurate timing sources. These receivers are located at cell sites. At least three receivers are required to locate a caller. The caller's mobile handset signal is received at the cell sites and time stamped. The difference in the time received at each of the cell sites is then used to calculate hyperbolic lines. The intersection of these lines provides an approximation of the caller's location. AOA uses specialized antennas located at the cell sites. The placement of the antennas determines the angle at which the mobile handset's signal is received at each antenna. The intersection of the angle at which the signal arrives at the cell sites provides an approximation of the caller's location.

The combination of these technologies will likely be used throughout Quick Call's market. In addition to this automatic location identification ("ALI") equipment described above, Quick Call's system will require a location management system to interface between the ALI equipment, the switching center and the local wireline network E911 system. Quick Call anticipates that modifications to its network and switching center may be necessary. Further, the local wireline carrier may find it necessary to modify its E911 network. At this time, however, Quick Call is unable to describe the nature of these modifications.

Testing and Verification

To date, Quick Call has not conducted any Phase II ALI equipment technology tests. As necessary, Quick Call will use tests based on established engineering and testing standards. Testing will be performed in accordance with FCC Guidelines for determining the accuracy of ALI solutions contained in OET Bulletin No. 71.

Implementation Details and Schedule

Quick Call anticipates that both hardware and software changes to its system will be necessary to implement its chosen ALI solution. Quick Call plans to acquire the necessary hardware and software and install same in accordance with FCC rules. Once Quick Call finalizes its hardware and software choices and makes the necessary acquisitions, Quick Call will provide the FCC with a deployment schedule. Quick Call understands that FCC rules require deployment of a Phase II ALI system by the deadline, even if there is no system that fully meets the FCC's requirements.

PSAP Interface

When Quick Call incorporates its Phase II hardware and software changes into its system, it will make sure that those changes will enable the system to transmit Phase II data to the nearby Public Safety Answering Points ("PSAP"). This will include transmitting the Phase II data through the public switched telephone network to the PSAP. The deployment schedule for this part of the system will be incorporated into Quick Call's overall Phase II deployment schedule and will be provided to the FCC at the same time.

Existing Handsets

Since Quick Call intends to deploy a network based technology as its Phase II solution, this section is inapplicable.

Location of Non-Compatible Handsets

Since Quick Call intends to deploy a network based technology as its Phase II solution, this section is inapplicable.

Other Information

To date, Quick Call has not received any requests for Phase II service from any PSAP.